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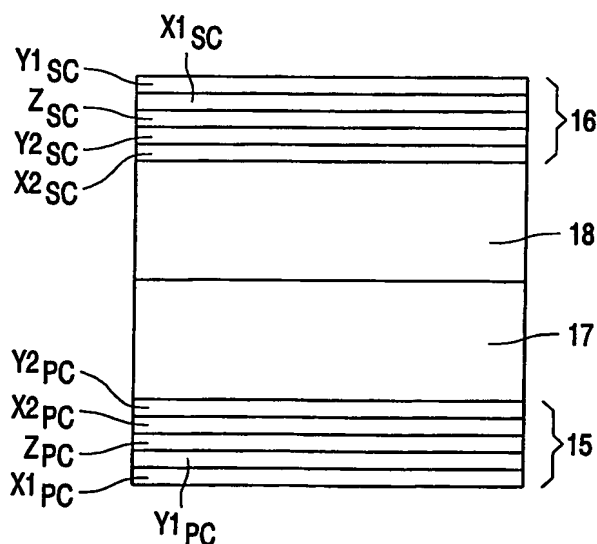
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(54) Title: VARIABLE FIELD-OF-VIEW GRADIENT COIL SYSTEM FOR MAGNETIC RESONANCE IMAGING



(57) Abstract: The present invention relates to a gradient coil system for magnetic resonance imaging (MRI) systems and to a magnetic resonance imaging (MRI) system comprising such a gradient coil system. Magnetic resonance imaging systems comprise at least a main magnet system, a gradient coil system, a RF system and a signal processing system. The gradient coil system according to the present invention comprises at least two X primary coil-like elements ($X1_{pc}$, $X2_{pc}$), at least two Y primary coil-like elements ($Y1_{pc}$, $Y2_{pc}$) and one Z primary coil-like element (Z_{pc}) providing a modular gradient coil system, wherein the at least two X primary coil-like elements ($X1_{pc}$, $X2_{pc}$) have mutually different linearity volumes by themselves or in combination with each other, the at least two Y primary coil-like elements ($Y1_{pc}$, $Y2_{pc}$) have mutually different linearity volumes by themselves or in combination with each other, and the one Z primary coil-like element (Z_{pc}) is placed between the X primary coil-like elements ($X1_{pc}$, $X2_{pc}$) and the Y primary coil-like elements ($Y1_{pc}$, $Y2_{pc}$).



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